

Fig. 1

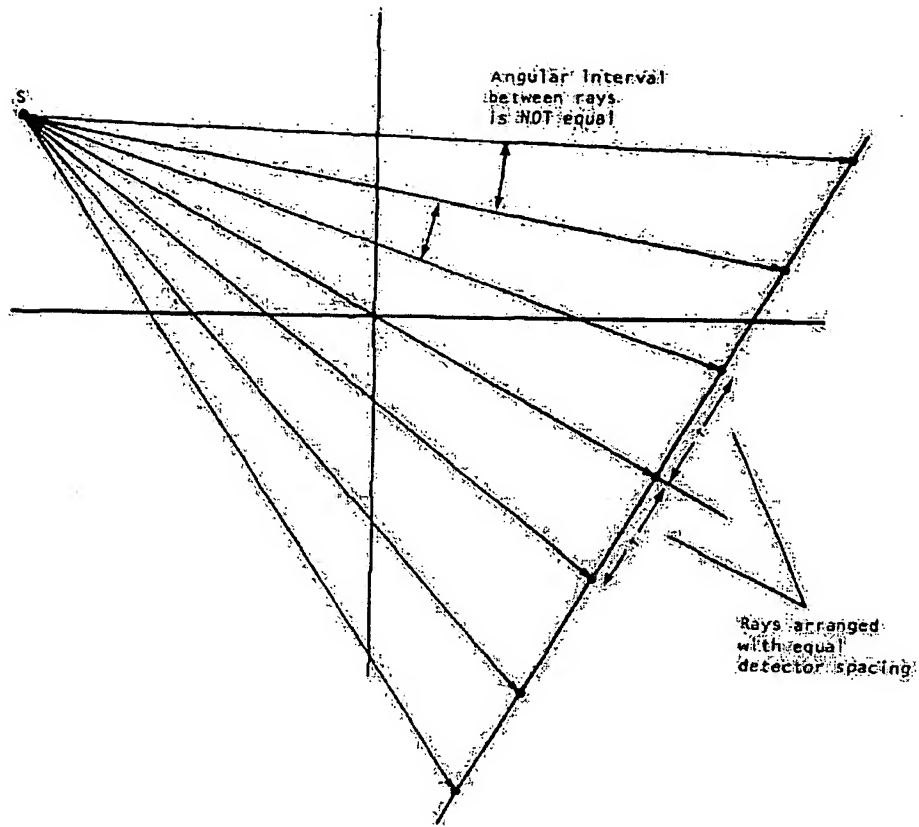


Fig. 2

Title: Apparatus and Method for.....
Inventors: Eugene A. Gregerson, et al.

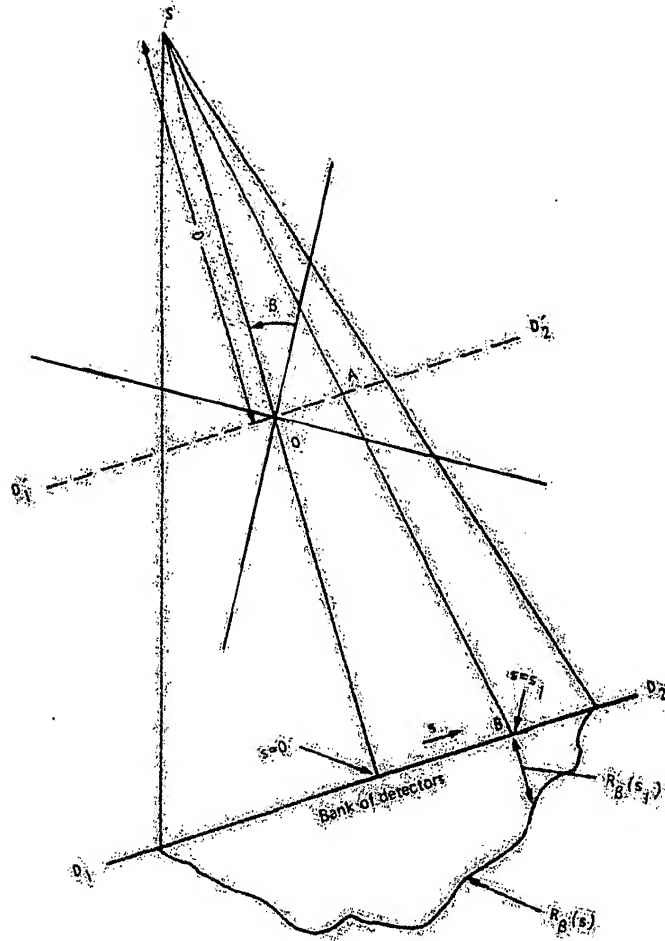


Fig. 3

Title: Apparatus and Method for.....
Inventors: Eugene A. Gregerson, et al.

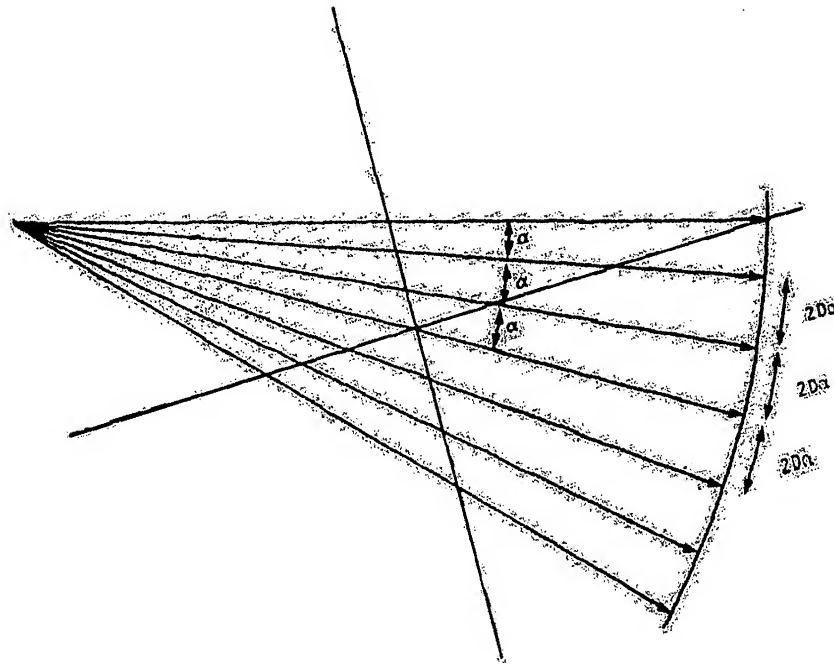


Fig. 4

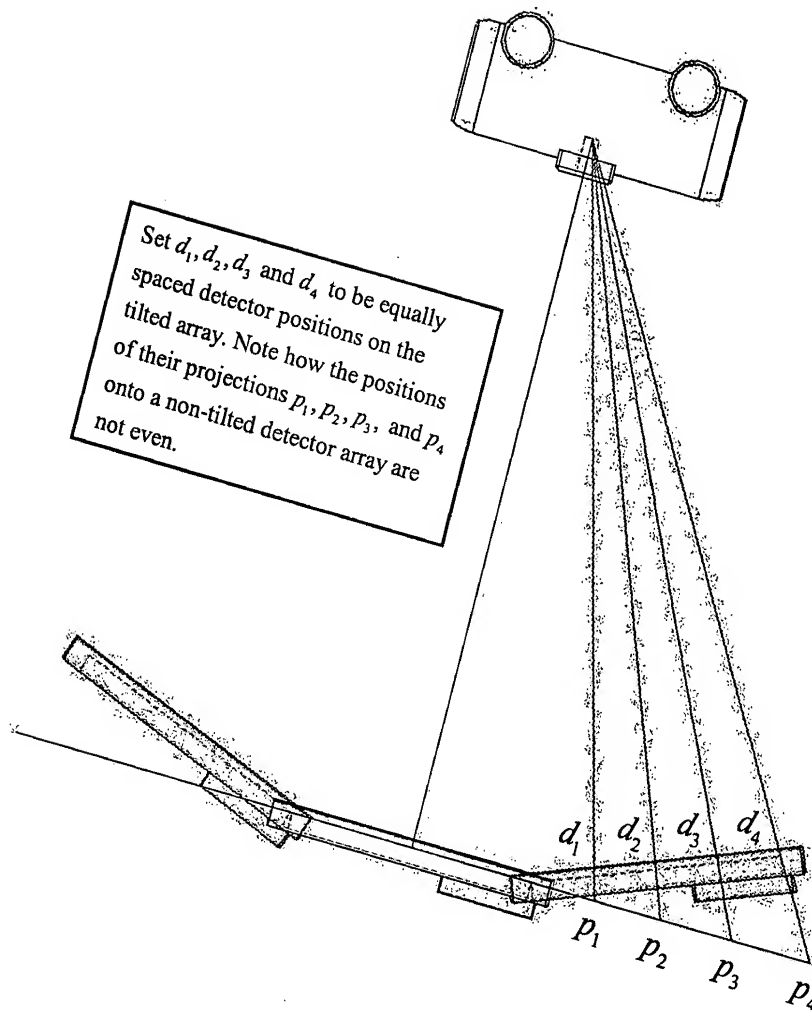
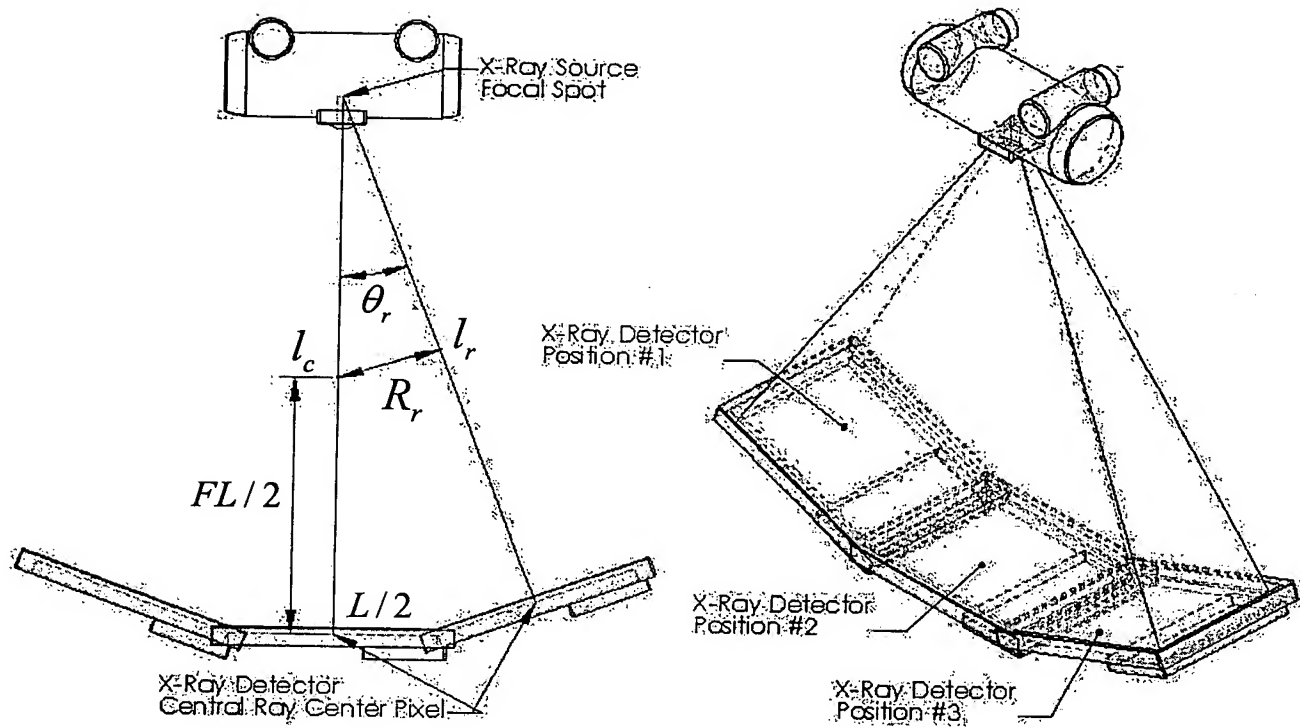
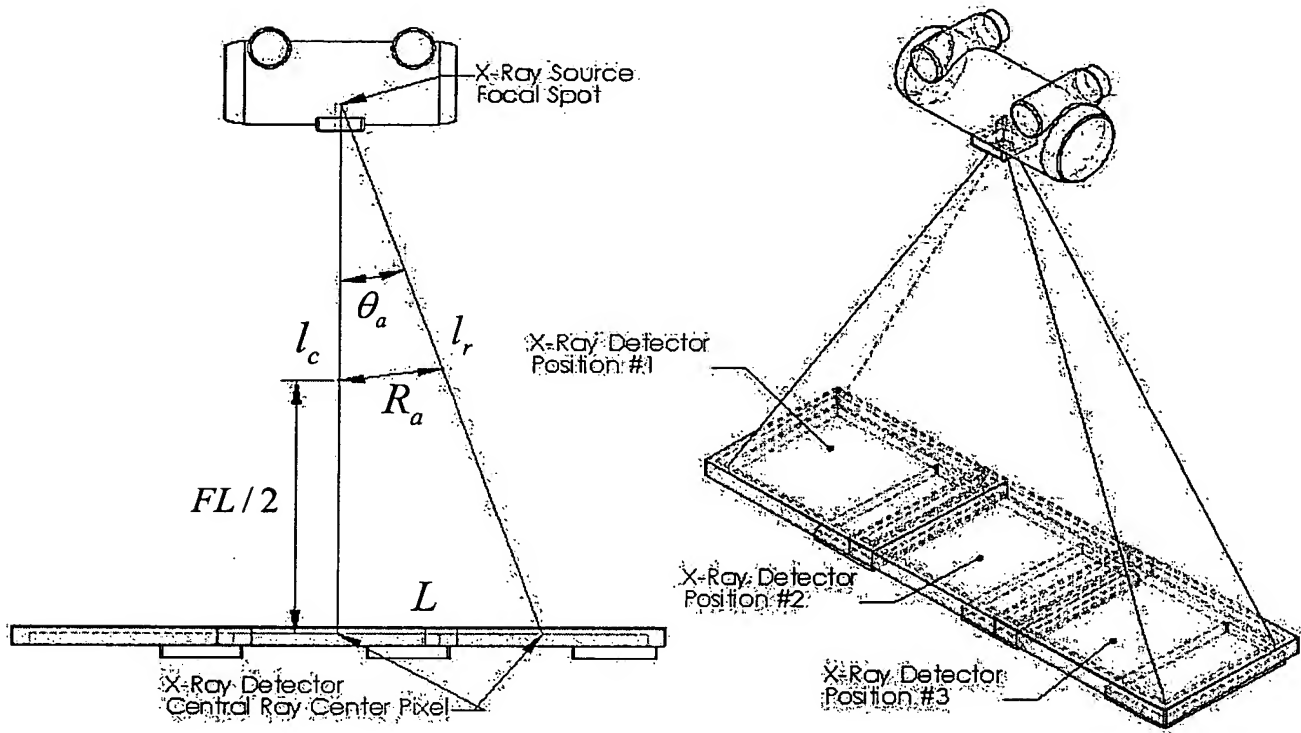


Fig. 6



Let $FL = 1000mm$ be the scanner focal length
 and
 $L = 400mm$ be the length of the detector
 then
 $\theta_r = 2 * \arctan((L/2) / FL) = 0.395rad = 22.632 \text{ deg}$
 and
 $R_r = (FL/2) * \sin \theta_r = 192.31mm$

Fig. 7



Let $FL = 1000mm$ be the scanner focal length
 and
 $L = 400mm$ be the length of the detector
 then
 $\theta_a = \arctan(L / FL) = 0.3804rad = 21.795deg$
 and
 $R_a = (FL / 2) * \sin \theta_a = 185.695mm$

Fig. 8

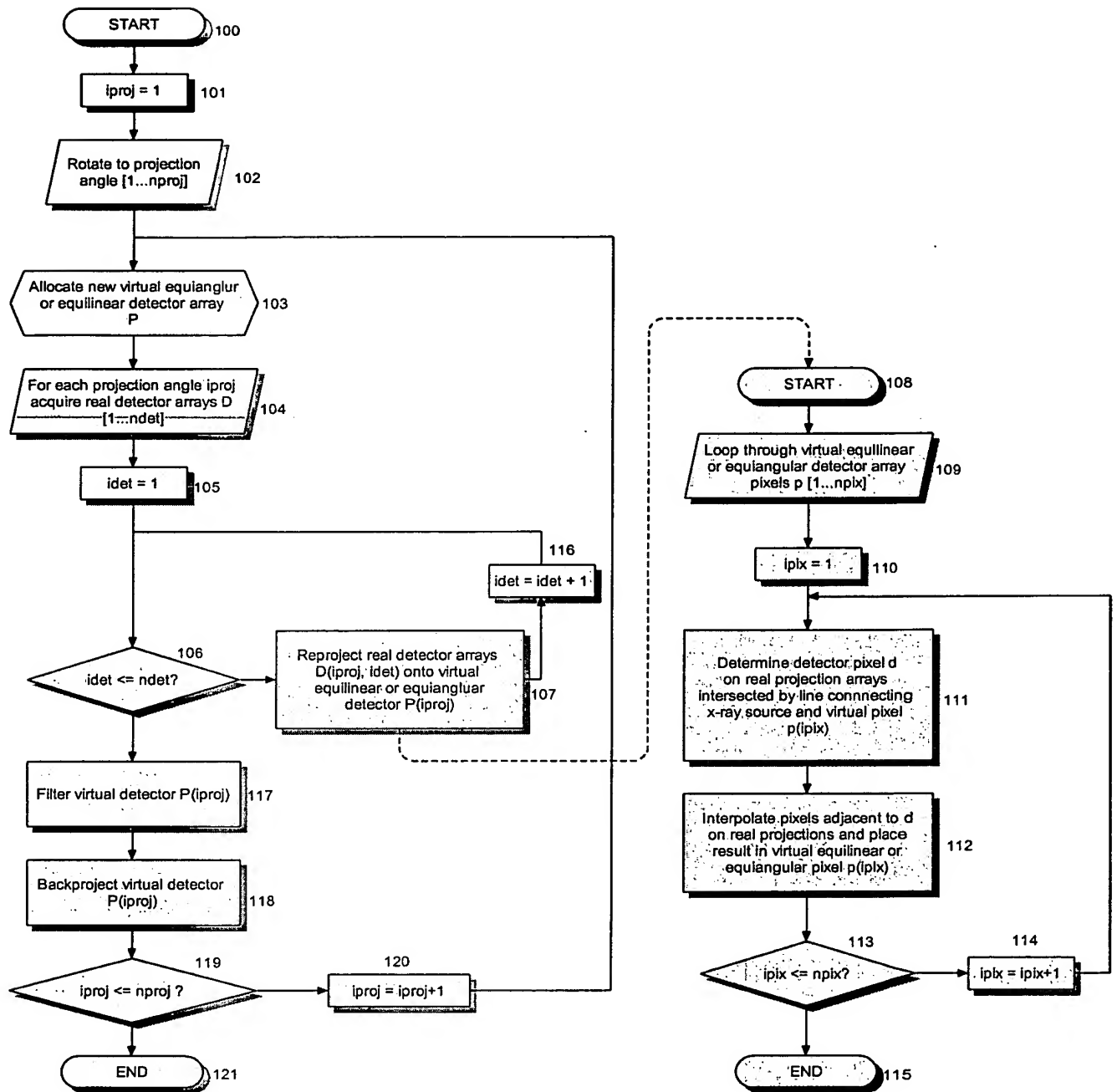


Fig. 9

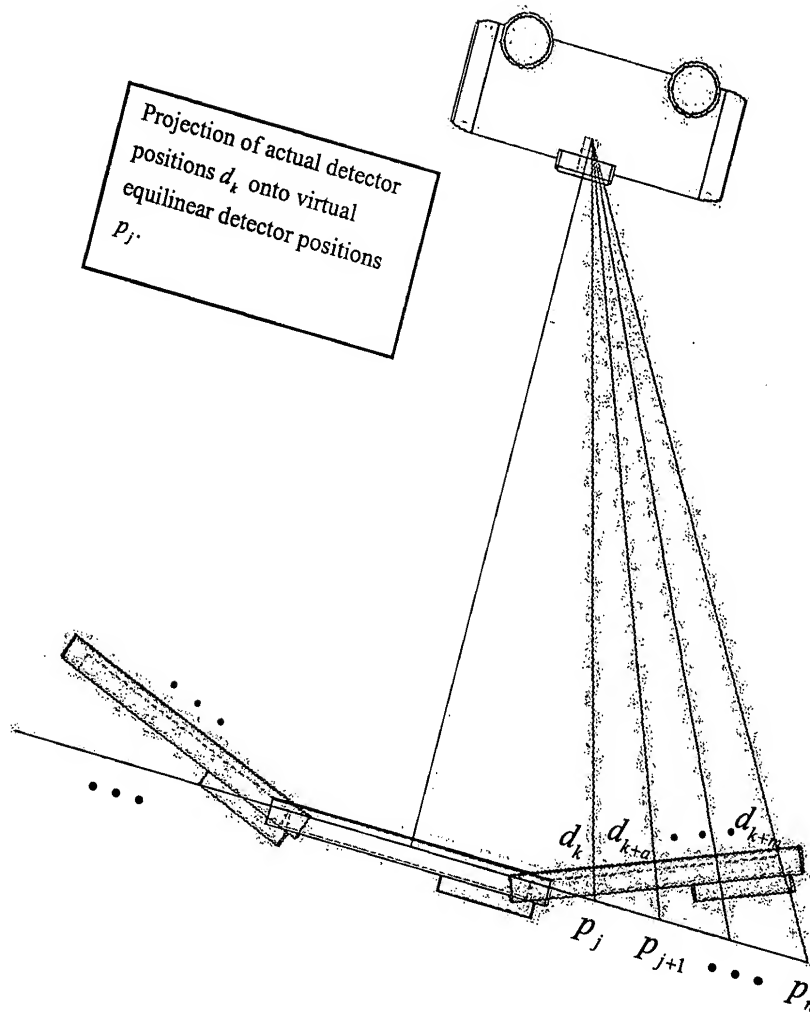


Fig. 10

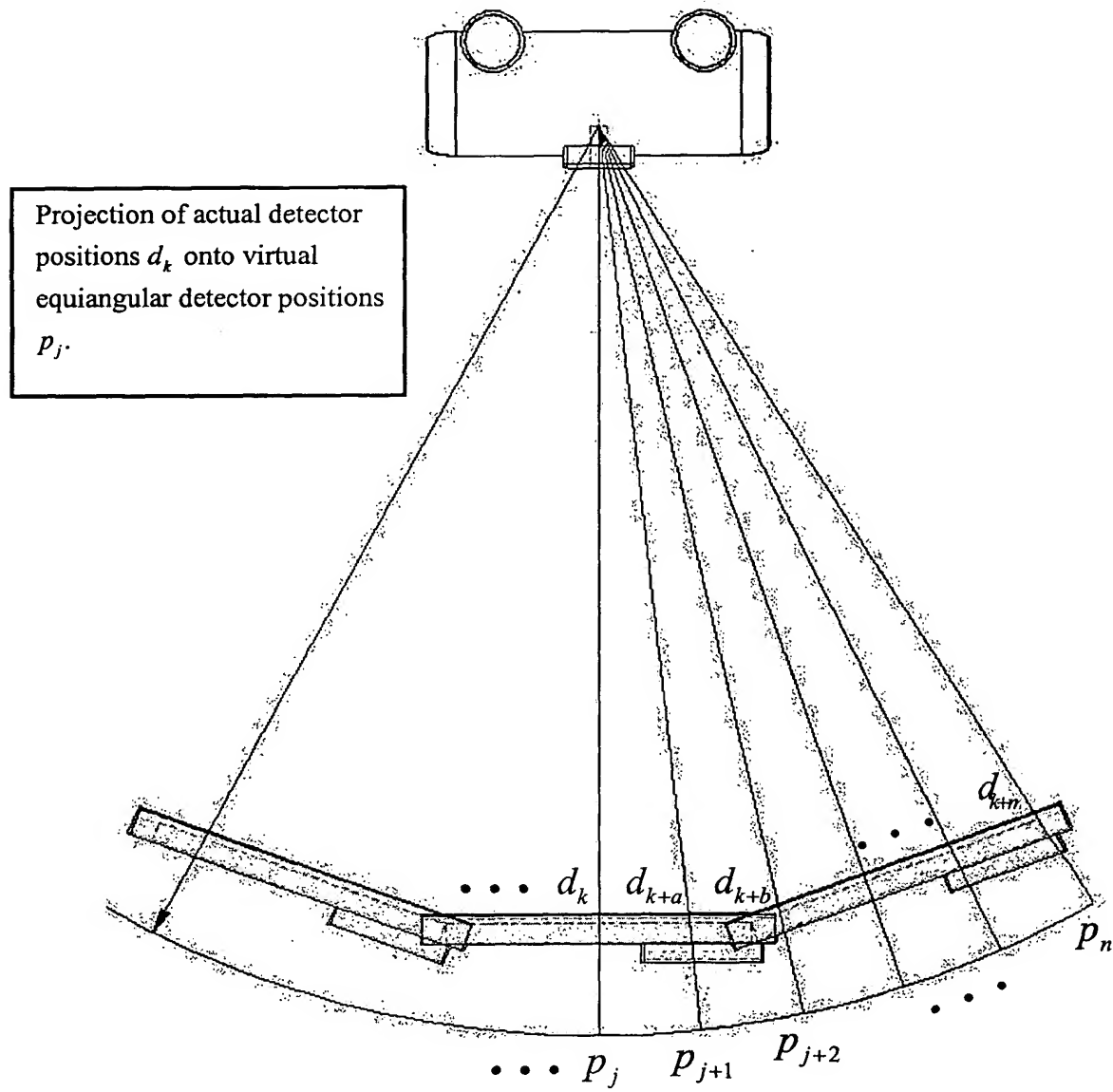


Fig. 11